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tion of the atomic weights of a considerable number of elements with less consumption of time and in most cases with greater accuracy than the chemical methods that have been used hitherto.

C. W. KANOLT

BUREAU OF STANDARDS,  
WASHINGTON, D. C.

THE MATHEMATICAL ASSOCIATION  
OF AMERICA

THE third annual meeting of the Mathematical Association of America was held at the University of Chicago on Thursday and Friday, December 27-28, 1917, in conjunction with the Chicago Section of the American Mathematical Society. There were 119 in attendance at this meeting, including 93 members and one institutional representative. The program is given herewith:

PROGRAM

Thursday

*The graph of  $f(x)$  in line-coordinates for complex numbers*, PROFESSOR A. F. FRUMVELLER, Marquette University.

*On the generalization of the witch and the cissoid*, PROFESSOR F. H. HODGE, Franklin College.

*Fermat's method of infinite descent*, PROFESSOR W. H. BUSSEY, University of Minnesota.

*On the disciplinary and applied values of mathematical study*, PROFESSOR C. N. MOORE, University of Cincinnati.

*On the content of a second course in calculus*, PROFESSOR E. J. MOULTON, Northwestern University.

Address: *Descriptive geometry and its merits as a collegiate as well as an engineering subject*, PROFESSOR W. H. ROEVER, Washington University.

Brief discussions by Professor F. Higbee, department of descriptive geometry and drawing, State University of Iowa; Professor A. V. Millar, department of drawing, University of Wisconsin; Professor Arnold Emch, department of mathematics, University of Illinois; Mr. Willard W. Erme-ling, instructor in descriptive geometry, Crane Junior College, Chicago; Mr. W. F. Willard, instructor in drawing, Carl Schurz High School, Chicago. General discussion.

Friday

Report of standing committees.

Committee on Mathematical Requirements.

*Scientific investigations of the committee*, PROFESSOR A. R. CRATHORNE, University of Illinois.

*The work of a committee representing the Central Association of Science and Mathematics Teachers*, MR. J. A. FOBERG, Crane Junior College, Chicago.

Committee on Libraries.

A report of this committee was published in the October *Monthly*.

Discussion opened by Professor H. E. Slaught, University of Chicago.

Committee on Mathematical Dictionary.

Preliminary report by the chairman, Professor E. R. Hedrick, University of Missouri.

Committee on *Annals of Mathematics*. Report by Professor E. H. Moore, University of Chicago.

Committee on Bureau of Information. Report by Professor J. B. Shaw, University of Illinois.

Joint session of the Mathematical Association of America and the American Mathematical Society.

Retiring address of the chairman of the Chicago Section of the Society: *A conspectus of the modern theory of divergent series*, by PROFESSOR W. B. FORD, University of Michigan.

Address on behalf of the association: *On a definition of the real number system by means of infinite decimals*, by PROFESSOR L. D. AMES, University of Missouri.

Seventy-three attended the joint dinner of the society and the association at the Quadrangle Club on Thursday evening, and a good number of the members attended the dinner of the American Association of University Professors on Friday evening.

At the annual business meeting amendments were adopted according to which the office of managing editor is divided into those of editor and manager, and the office of secretary-treasurer is to be filled through appointment by the council rather than through election by the association. Twenty-four persons and three institutions were elected to membership. The report of the secretary-treasurer showed that the association is appropriating a substantial subvention to the *Annals of Mathematics* in return for the addition to each volume of this journal of one hundred pages or more of articles of an expository or historical nature; that one hundred dollars has been set aside to cover some necessary expense in the work of the National Committee on Mathematical Requirements; that the year's business shows a gain of approximately one hundred dollars.

The following are the officers for 1918:

E. V. HUNTINGTON, Harvard University, President.

D. N. LEHMER, University of California; J. W. YOUNG, Dartmouth College, Vice-presidents.

W. D. CAIRNS, Oberlin College, Secretary-Treasurer.

Committee on Publications: W. H. BUSSEY, University of Minnesota; R. D. CARMICHAEL, University of Illinois, editor; H. E. SLAUGHT, University of Chicago, manager.

Members of the council (for three years): FLORIAN CAJORI, Colorado College; ELIZABETH B. COWLEY, Vassar College; G. A. MILLER, University of Illinois; E. T. WILCZYNSKI, University of Chicago.

W. D. CAIRNS,

Secretary-Treasurer